AXIS 250

User Manual

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MEGA LITE

Check that the unit has not been damaged during transport

Protection Against Fire

Fire

1. Maintain a minimum of 1 foot distance from any type of flame.
3. Replace fuse only with the specified type and rating.
4. Do Not install the unit to close to a heat source.
5. Make sure cable are properly secured away from unit movement.
6. Maximum surface operating temperature 90°.

Protection Against Fire

Electrical

1. Disconnect power before lamp replacement or servicing.
2. For connection to main power supply proceed to page 6.
3. This unit must be earthed. (electronically grounded)
4. Do not expose unit to rain or moisture.

Protection Against Mechanical Hazards

Mechanical

1. Use safety chain when hanging unit.
2. Use quality clamps or bolts when positioning unit
3. Do not open unit risk of electrical shock.

Protection Against UV Radiation

Radiation

1. Do not look directly at the lamp when cover are off and lamp is on.
2. Do not start unit with out lamp covers or if the protection screens, or ultraviolet filters.

Specifications

Part Numbers

Fixture	Lamp	Flight Case
1030 - AXIS 250	**LNSK250/2**	**9051-Dual Flight Case**

Mechanical Specifications

Pan: 530° **Tilt:** 280°

DMX Connectors: 3-pin XLR connectors

Reflector: Glass reflector with cold mirror coating

Thermal: Maximum ambient temperature 40° C
Maximum surface temperature 80° C

Fastening System: 2 clamp placement attachments

Fixture	Packaged for Shipping
Size: 16.75"L x 16"W x 20.5"H Weight: 52 lbs	Size: 20"L x 19.25"W x 22.25"H Weight: 61.60 lbs

Electrical Specifications

Lamp:	NSK/2	MSD250/2 (optional)
Light output:	12,000 ANSI lumen	12,000 ANSI lumen
Lamp life:	3,000 hours	3,000 hours
Color temperature:	8,000 K	6,200 K

Power consumption: 120V 50/60 Hz

Base: GY-9.5

Ballast: Magnetic

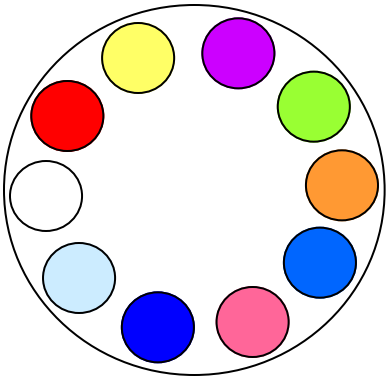
Electromechanical Effects

Focus: Motorized focus

Prism: 3-Facet prism rotating in both directions at different speeds

Dimmer / Shutter: Full range dimming and variable strobe effect

Color



1: Open
2: Red
3: Yellow
4: Purple
5: Light Green
6: Orange
7: Blue
8: Magenta
9: Dark Blue
10: Light Blue

Gobo

1: Open
2: Magenta Swirl
3: Daisy
4: Swivel
5: Stars
6: Diffusion
7: Circular Stars

Dichroic Glass Gobo: Diameter 27 mm Image 24 mm Thickness 4 mm max

DMX Channels

Channel	Function	Channel	Function	Channel	Function
1	Pan	7	Color Wheel	13	Prism Rotation
2	Tilt	8	Gobo Wheel	14	Focus
3	Pan Fine	9	Gobo Rotation		
4	Tilt Fine	10	Shutter		
5	Pan/Tilt Speed	11	Dimmer		
6	Control	12	Prism		

Main Power Connection

Caution!
1. Do not connect fixture to a dimmer system.
2. This unit must be earthed. (electronically grounded)
3. Replace fuse only with the specified type and rating.

110V 50/60hz Connection

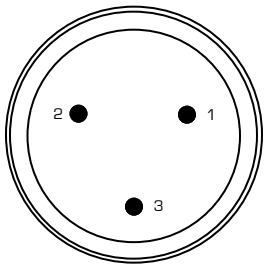
The occupation of the connection-cable is as follows:

Cable (USA)	Cable (EU)	Pin	International
Brown	Brown	Live	L
Blue	Blue	Neutral	N
Yellow / Green	Yellow/Green	Pin	⏚

DMX-512 Connection

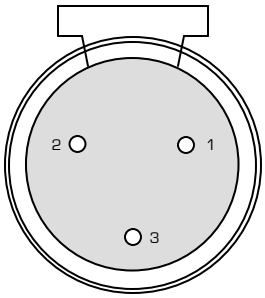
The fixture is equipped with 3 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

DMX—input



1. Shield
2. Signal (-)
3. Signal (+)

DMX—output



Caution!
At the last fixture the DMX signal needs to be terminated with a terminator. Solder a 120 Ohm resistor between the (-) and the (+) signal into a 3 pin XLR plug and plug it in to the last fixture on the signal run. Pre-manufactured terminator plugs are available for purchase from your Mega-Lite dealer (HOS-DMXT).

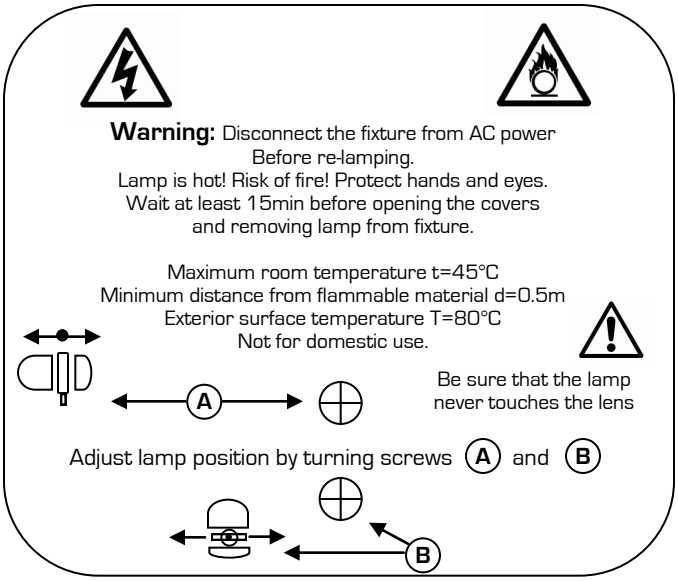
Lamp Replacement

Caution!
1. Disconnect power before you begging.
2. Allow 15min for the unit and lamp to cool.
3. Do not touch lamps glass envelope with your fingers. If this happens clean with alcohol / to remove oils.

Lamp Placement

To insert the lamp MSD 250/2, HSD250. Use a Phillips screwdriver to unscrew the bolts that hold the plastic Bessel in place there will be 3 screws. Unscrew the knurled-head screws of the lamp holder and remove it. Carefully insert the lamp into the lamp holder. Make a note that there is a large and small pole insert the new lamp into corresponding socket.

Do not install a higher wattage lamp this will void your warranty. Please note the light bulb manufactures warnings. Do not touch the bulb with bare hands. Close lamp cover. Adjust the lamp as described under lamp adjustment make sure lamp is not touching any of the metal housing.


Warning: Disconnect the fixture from AC power
Before re-lamping.
Lamp is hot! Risk of fire! Protect hands and eyes.
Wait at least 15min before opening the covers
and removing lamp from fixture.
Maximum room temperature t=45°C
Minimum distance from flammable material d=0.5m
Exterior surface temperature T=80°C
Not for domestic use.
Be sure that the lamp
never touches the lens
A
Adjust lamp position by turning screws A and B
B

Lamp Adjustment

Due to the difference between lamps. Fine adjustment may improve light performance. You will need to strike the lamp and set the light so the optical path is clear. You will need to turn the screws **A&B** one after another a slight turn clockwise and counter clockwise until you set the hot spot of the light in the center of the image. If no hot spot can be seen then set the lamp till the light is evenly distributed.

Rigging the fixture

Caution!
1. The installations must be carried out by an authorized dealer or trained professional.
2. Unit may cause severe injures if you have doubts concerning the safety do not install.
3. Unit is to be 24inches away from flammable materials (decoration material)
4. Use high quality installation equipment to hang unit.

When rigging a unit it is very important that you follow common safety procedures. Rigging requires extensive experience including but not limited to calculating working loads, material being used and periodic safety inspections. If you lack these qualifications, do not attempt the installation yourself, instead use a professional structural rigger.

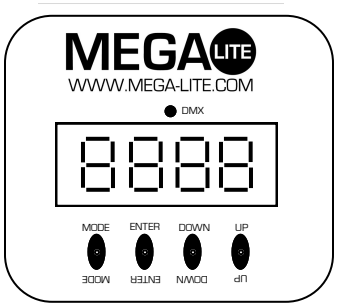
When rigging the unit always be secured with a secondary safety attachment. The installation location of the projector has got to be built in the way that it can hold 10 times the weight for 1 hour with out any harming. Installation should be checked at least one time a year by a skilled person.

Axis 250 DMX Profile

DMX Channel	Function	Description	Value
1	Pan	Pan	0-255
2	Tilt	Tilt	0-255
3	Pan Fine	Pan Fine	0-255
4	Tilt Fine	Tilt Fine	0-255
5	Speed	Pan/Tilt Speed (From fast to slow)	0
		Max Speed	1-249
		Blackout During Movement	250-252
6	Reset	Reset	200-209
7	Color	Open	0-13
		Red	13-25
		Yellow	26-38
		Purple	39-51
		Light Green	52-64
		Orange	65-77
		Blue	78-90
		Magenta	91-103
		Dark Blue	104-116
		Light Blue	117-127
		Forward Color Scroll (slow to fast)	128-191
		Backwards Color Scroll (fast to slow)	192-255
8	Gobo Wheel	Open	0-17
		Magenta Swirl	18-35
		Daisy	36-53
		Swivel	54-71
		Stars	72-89
		Diffusion	90-107
		Circular Stars	108-125
		Forward Gobo Wheel Spin	127-191
		Stop	192
		Backwards Gobo Wheel Spin	193-255
9	Gobo Rotation	No Function	0-15
		Clockwise Rotation (slow to fast)	16-135
		Counterclockwise Rotation (slow to fast)	136-255
10	Shutter	Open	0-13
		Strobe (slow to fast)	14-214
		Random (slow to fast)	215-249
		Open	250-255
11	Dimmer	Close	0-5
		Open	6-59
		Dimmer 0% to 100%	60-255
12	Prism	No Function	0-127
		Prism	128-255
13	Prism Rotation	No Function	0-15
		Clockwise Rotation (slow to fast)	16-135
		Counterclockwise Rotation (slow to fast)	136-255
14	Focus	Focus	0-255

Main Control Menu

The control board on the fixture base is your interface to access and control all the functions on the unit. Its digital display gives you a code view of the options and functions. The following will explain each function and its options.



DMX Address	Color Control	Reverse Pan	Reverse Tilt	Demo Mode	Reset
A001	F1-n	F2-n	F3-n	F4-n	F5-n
0-512					

A001 DMX Address

Use the **up/down** keys to select the required DMX start channel. Press **Enter** to confirm or **Mode** to exit and return to main menu. The display will flash if there is no DMX signal been received from the console.

F1-n Color Control

This function allows you to chose from Bi-Color placement or Fixed Color placement. Use the **up/down** keys to select, **Y** to select bi-color mode or **N** to select fixed color mode . Press **Enter** to confirm or **Mode** exit and return to the main menu.

F2-n Reverse Pan

This function allows you to invert the Pan direction. Use the **up/down** keys to select, **Y** to invert pan and **N** not to invert the pan. Press **Enter** to confirm or **Mode** exit and return to the main menu.

F3-n Reverse Tilt

This function allows you to invert the Tilt direction. Use the **up/down** keys to select, **Y** to invert tilt and **N** not to invert the tilt. Press **Enter** to confirm or **Mode** exit and return to the main menu.

F4-n Demo Mode

This option allows you to turn on the demo mode. Use the **up/down** keys to select, **Y** to turn on demo mode and **N** not to turn off the demo mode. Press **Enter** to confirm or **Mode** exit and return to the mail menu.

F5-n Reset

This option allows you to reset the fixture and re-home all the motor setting. Use the **up/down** keys to select, **Y** to Reset and **N** not to reset the fixture. (note: after you reset the fixture you must also set it to **N** to stop resetting or it will continue to reset) Press **Enter** to confirm or **Mode** exit and return to the main menu.

Cleaning and maintenance

Installation Maintenance: The operator has to make sure that the unit is operating safely and has the installations and electronics checked by an expert every 2 years.

The following points have to be considered during the inspection:
1) All screws used for installing the device or part of the device have to be tightly connected and must not be corroded.
2) There must not be any deformations on the housing, fixation and installation spots (ceiling, suspension, trussing).
3) Mechanically moved parts like axles, eyes and other must not show any traces of wearing and must not rotate with unbalances.
4) The electronic power supply cables must not show any damages, material fatigue (e.g. porous cables) or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

Disconnect from mains before starting maintenance operation!

Caution Danger to life!

We recommend a frequent cleaning of the device. Please use a moist, lint free cloth. Never use alcohol or solvents!
1) The objective lens will require periodic cleaning on usage and environment. Environment with foggers will require more periodic cleaning as fog fluid tends to build up residues, reducing the light output.
2) The cooling-fans should be cleaned monthly. DO NOT blow high pressure air into fans as incorrect rotation can damage the fans operation.
3) The gobos, dichroic color filters and internal lenses may be cleaned with soft brush using soapy water.
4) The interior of the fixture should be cleaned using a vacuum.
5) We recommend proper lubrication of the motor wheel. The quantity of the oil must not be excessive in order to avoid oil run outs when motor wheel rotates

Note: There is no serviceable parts inside the device except for the lamp and the fuse. Maintenance and service operations are to be carried out by authorized dealers.

Replacing the fuse: Only replace the fuse with the same type and rating.

Replacing the power cable: If the power cable of this device becomes damaged, it has to be replaced by authorized dealers only In order to avoid hazards.

Should you have further questions , please contact your dealer.

Parts List

9051	Dual Axis 250or 300 Case
1030-MPCB	Main PCB Card
1030-DC-G	Driver Card-gobo
1030-DC-P	Driver Card-prism
1030-dis	Display Card
1010FAN	Fan 3X3
1010FAN-S	Lamp Fan 1.5X1.5
1030-IG	Igniter
1030-PRISM	Prism
1030-QRM	Quick Release Mount Set
1030-RF	Reflector

LMSD250	Phillips MSD250/2
LNSK250	JENDO NSK250/2
1030-TRA	Transformer
P-1010IRF	IR Filter
1030-PLLS	Full Lens Set
1030-ARMB	Arm Body Set
1030-DISB	Display Body Set
1030-HEADB	Head Body Set
1010-CBB65R	Capacitor CBB65R
1030-MC	Motor Color
1030-MG	Motor Gobo

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